Problem 1: (Refer to Loss_&_Accuracy.xlsx spreadsheet attached)

- 1. An MLP for CIFAR10 with best model recommended after experiments in python notebook consist of following parameters:
- Number of epochs=30
- Batch size = 128
- Number of neurons in a layer = 700 & 10
- Number of layers = 2
- Learning rate = normal
- Activation functions = 'relu' & 'softmax'
- Dropout rates = normal
- Optimizer = 'rmsprop'

This model provides an accuracy of 50.05% which outputs to be max out of the 15 experiments done on parameters.

2. The model isn't that good. This model underfits data and thus requires a lot of hyperparameters to be tuned. I would improve this model by playing around with the parameters. But even after that a stage comes where the accuracy can reach maximum till 54-55% and the data overfits.